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Detail

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PATENT ABSTRACTS OF JAPAN

(11) Publication number : **10-163916**
 (43) Date of publication of application : **19.06.1998**

(51) Int.CI.

H04B 1/38
 H01Q 13/08
 H01Q 23/00

(21) Application number : **08-327987**
 (22) Date of filing : **25.11.1996**

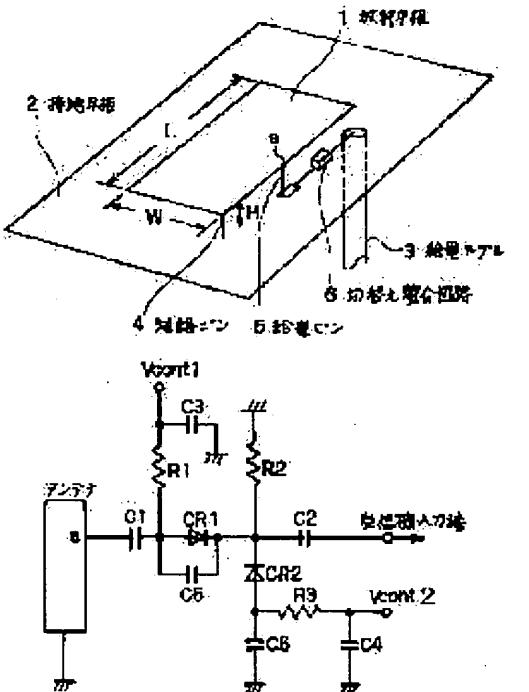
(71) Applicant : **KOKUSAI ELECTRIC CO LTD**
 (72) Inventor : **SAITO HIROTAKA**
SASAKI KANEMI

(54) ANTENNA FOR PORTABLE RADIO TERMINAL EQUIPMENT

(57) Abstract:

PROBLEM TO BE SOLVED: To perform changeover so as to provide equal antenna characteristics in any bands without changing the structure and size of the antenna of a portable radio terminal equipment even when another frequency band is allocated apart from the band during use at present.

SOLUTION: A changeover matching circuit 6 is provided serially between a power feed pin 5 connected to the power feed point (a) of a radiation plate 1 arranged parallelly to a ground plate 2 and a power feed cable 3. The changeover matching circuit 6 is composed of a serial arm composed of a switching diode CR1 and a parallel capacitor C6, a parallel arm composed of the switching diode CR2 and a serial capacitor C5 and the bias control circuit of the respective diodes. The capacitor C6 is short-circuited, the capacitor C5 is opened and a first band is tuned at the time of turning ON the diode CR1 and turning OFF the diode CR2 and the matching circuit composed of the capacitors C5 and C6 is made to act and a second band is tuned when the diode CR1 is OFF and the diode CR2 is ON.



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